

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
--	---

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
----------------	-------	---------	------------	--

Form	ACO1 - Well Completion
Operator	Palomino Petroleum, Inc.
Well Name	CURTIS 2
Doc ID	1461292

All Electric Logs Run

Micro
Dual Induction
Litho Density/Neutron
Dual Receiver Cement Bond

Form	ACO1 - Well Completion
Operator	Palomino Petroleum, Inc.
Well Name	CURTIS 2
Doc ID	1461292

Tops

Name	Top	Datum
Anhy.	2063	(+ 569)
Base Anhy.	2096	(+ 536)
Heebner	3900	(-1268)
Lansing	3942	(-1310)
Stark Sh.	4185	(-1553)
BKC	4240	(-1608)
Marmaton	4284	(-1652)
Pawnee	4372	(-1740)
Ft. Scott	4444	(-1812)
Cherokee Sh.	4469	(-1837)
Miss.	4528	(-1896)
LTD	4633	(-2001)



Company: Palomino Petroleum, Inc.

Lease: Curtis #2

SEC: 10 TWN: 16S RNG: 26W
County: NESS
State: Kansas
Drilling Contractor: WW Drilling, LLC - Rig 2
Elevation: 2628 GL
Field Name: Unice NE
Pool: Pool Ext
Job Number: 309

Operation:
Test Complete

DATE
February
15
2019

DST #1 **Formation: Mississippi** **Test Interval: 4482 - 4554'** **Total Depth: 4554'**
Time On: 18:24 02/15 Time Off: 03:16 02/16
Time On Bottom: 21:20 02/15 Time Off Bottom: 00:20 02/16

Electronic Volume Estimate:
147'

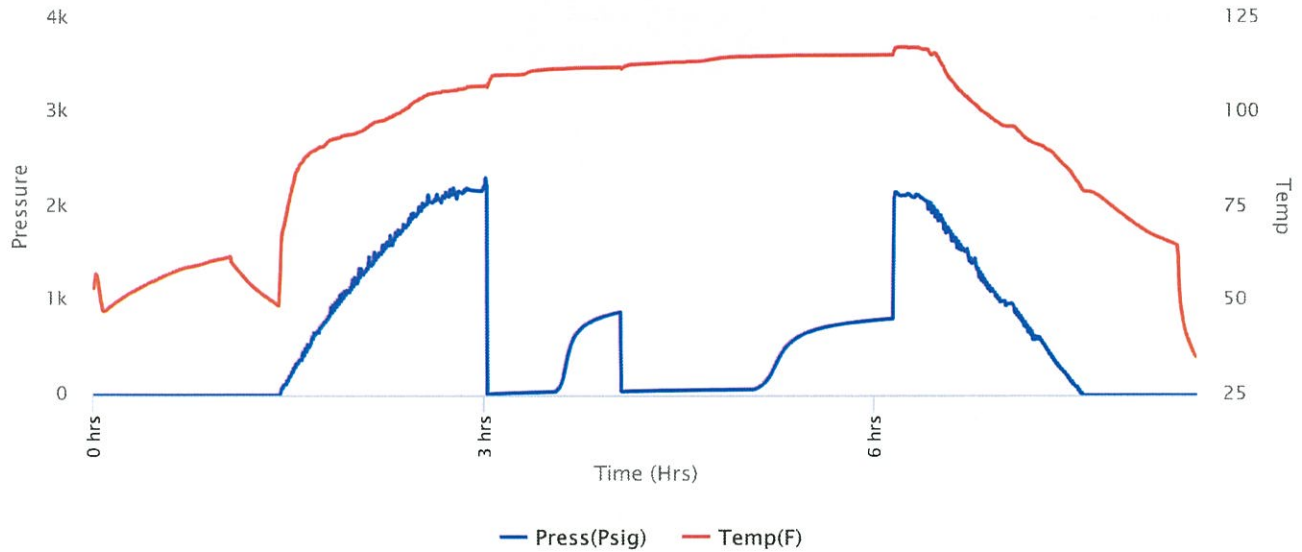
1st Open
Minutes: 30
Current Reading:
2.7" at 30 min
Max Reading: 2.7"

1st Close
Minutes: 30
Current Reading:
0" at 30 min
Max Reading: 0"

2nd Open
Minutes: 60
Current Reading:
3.2" at 60 min
Max Reading: 3.2"

2nd Close
Minutes: 60
Current Reading:
0" at 60 min
Max Reading: 0"

Inside Recorder





Company: Palomino Petroleum, Inc.

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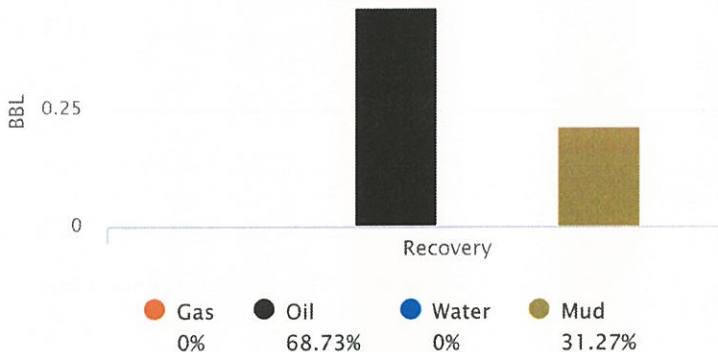
Recovered

Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
50	0.3153595	O	0	100	0	0
15	0.0738	SLMCO	0	98	0	2
60	0.2952	OCM	0	28	0	72

Total Recovered: 125 ft
 Total Barrels Recovered: 0.6843595

Reversed Out
 NO

Recovery at a glance



GIP cubic foot volume: 0

Initial Hydrostatic Pressure	2171	PSI
Initial Flow	12 to 40	PSI
Initial Closed in Pressure	883	PSI
Final Flow Pressure	42 to 64	PSI
Final Closed in Pressure	814	PSI
Final Hydrostatic Pressure	2159	PSI
Temperature	116	°F
Pressure Change Initial Close / Final Close	7.8	%



**Company: Palomino Petroleum,
Inc.
Lease: Curtis #2**

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County: NESS
State: Kansas
Drilling Contractor: WW Drilling, LLC -
Rig 2
Elevation: 2628 GL
Field Name: Unice NE
Pool: Pool Ext
Job Number: 309

Operation:
Test Complete

DATE
February
15
2019

DST #1	Formation: Mississippi	Test Interval: 4482 - 4554'	Total Depth: 4554'
	Time On: 18:24 02/15	Time Off: 03:16 02/16	
	Time On Bottom: 21:20 02/15	Time Off Bottom: 00:20 02/16	

BUCKET MEASUREMENT:

1st Open: Surface blow building to 2 1/2 ins.
1st Close: No blow back.
2nd Open: Surface blow building to 3 ins.
2nd Close: No blow back.

REMARKS:

Tool Sample: 0% Gas 38% Oil 0% Water 62% Mud

Gravity: 36.7 @ 60 °F



Company: Palomino Petroleum, Inc.

Lease: Curtis #2

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Elevation: 2628 GL
Field Name: Unice NE
Pool: Pool Ext
Job Number: 309

Operation:
Test Complete

DATE
February
15
2019

DST #1 **Formation:** **Test Interval: 4482 -** **Total Depth: 4554'**
Mississippi **4554'**
Time On: 18:24 02/15 Time Off: 03:16 02/16
Time On Bottom: 21:20 02/15 Time Off Bottom: 00:20 02/16

Down Hole Makeup

Heads Up: 21.06 FT	Packer 1: 4477.17 FT
Drill Pipe: 4353.11 FT <i>ID-3 1/2</i>	Packer 2: 4482.17 FT
Weight Pipe: 0 FT <i>ID-2 7/8</i>	Top Recorder: 4466.59 FT
Collars: 117.55 FT <i>ID-2 1/4</i>	Bottom Recorder: 4521 FT
Test Tool: 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	Well Bore Size: 7 7/8
Total Anchor: 71.83	Surface Choke: 1"
Anchor Makeup	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 3 FT <i>4 1/2-FH</i>	
Change Over: 1 FT	
Drill Pipe: (in anchor): 31.83 FT <i>ID-3 1/2</i>	
Change Over: 1 FT	
Perforations: (below): 34 FT <i>4 1/2-FH</i>	



Company: Palomino Petroleum, Inc.

Lease: Curtis #2

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	Time On: 18:24 02/15	Time Off: 03:16 02/16	
	Time On Bottom: 21:20 02/15	Time Off Bottom: 00:20 02/16	

Mud Properties

Mud Type: Chemical **Weight:** 9.4 **Viscosity:** 49 **Filtrate:** 7.2 **Chlorides:** 5,000 ppm



P. O. Box 466
Ness City, KS 67560
Off: 785-798-2300

RECEIVED
MAR 02 2019

Invoice

DATE	INVOICE #
2/27/2019	32088

BILL TO
Palomino Petroleum Inc. 4924 S E 84th Street Newton, KS 67114-8827

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#2	Curtis	Ness	Express Well	Oil	Development	Cement Port Collar	Blaine
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				40	Miles	5.00	200.00
576D-D	Pump Charge - Deep Surface (> 500 Ft.) & Port Collars				1	Job	1,300.00	1,300.00
330	Swift Multi-Density Standard (MIDCON II)				190	Sacks	16.25	3,087.50T
276	Flocele				50	Lb(s)	2.50	125.00T
290	D-Air				1	Gallon(s)	42.00	42.00T
104	Port Collar Tool Rental				1	Each	200.00	200.00T
581D	Service Charge Cement				225	Sacks	1.75	393.75
583D	Drayage				447.8	Ton Miles	0.85	380.63
	Subtotal							5,728.88
	Sales Tax Ness County						6.50%	224.54

We Appreciate Your Business!

Total

\$5,953.42



CHARGE TO: Plawindo Petroleum
 ADDRESS
 CITY, STATE, ZIP CODE

TICKET 032088

PAGE 1 OF 1

SERVICE LOCATIONS
 1. Wendy KS WELL/PROJECT NO. 42 LEASE Curtis COUNTY/PARISH Leas STATE KS CITY Utica DATE 2/26/19 OWNER
 2. TICKET TYPE SERVICE SALES CONTRACTOR
 3. WELL TYPE 01 WELL CATEGORY Development RIG NAME/NO. Express SHIPPED VT DELIVERED TO Location ORDER NO.
 4. WELL PERMIT NO. WELL LOCATION

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING LOC ACCT DF	DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
575			MILEAGE	40	mi			5.00	200.00
576D			TRK W4					1300.00	1300.00
330			Port Charge	1	ea			16.25	3087.50
276			SMD cement	190	sk			2.50	125.00
290			Flocks	50	lb			42.00	42.00
104			D-air	1	gal			200.00	200.00
581			Port Collar Opening Tool Rental	5 1/2	in			1.75	393.75
583			Service charge	225	sk			0.85	380.63
			Drayage	22389	lb			447.81	100000.00

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.
 X Steve Handal

DATE SIGNED _____ TIME SIGNED _____
 A.M. P.M.

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

REMIT PAYMENT TO:
 SWIFT SERVICES, INC.
 P.O. BOX 466
 NESS CITY, KS 67560
 785-798-2300

SURVEY
 OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN? YES NO
 WE UNDERSTOOD AND MET YOUR NEEDS? YES NO
 OUR SERVICE WAS PERFORMED WITHOUT DELAY? YES NO
 WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY? YES NO
 ARE YOU SATISFIED WITH OUR SERVICE? YES NO
 CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL 6728.88
 TAX 65.10
 TOTAL 5953.42

SWIFT OPERATOR PC APPROVAL PC

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 27 Feb 19 PAGE NO. 1

CUSTOMER Palamino Petroleum WELL NO. #2 LEASE Curtis JOB TYPE cement port collar TICKET NO. 32088

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								225 sk SMD cement w/ 1/4" floacle 2 7/8 x 5 1/2 port collar - 2020'
	1430							on loc TRK 114
	1445					1000	1000	test to 1000 psi - held
	1450							open port collar
		3 1/2	2			300		inj rate 3 1/2 @ 300
		3 1/2				300		MIX SMD cement @ 11 1/2 ppg
		3 1/2	10			300		- circ to pit -
		3 1/2	102			450		→ cement to pit { 190 sk mixed } 15 to pit
			10 1/2					Displace with H ₂ O close port collar
								test to 1000 psi - held
	1545							Run 4 joints
	1555		25					Reverse hole clean - 2 cement plugs -
								Wash truck
								Rack up
	1630							job complete
								Thanks Blaine, Flint & Ross



P. O. Box 466
 Ness City, KS 67560
 Off: 785-798-2300



Invoice

DATE	INVOICE #
2/17/2019	27477

BILL TO
Palomino Petroleum Inc. 4924 S E 84th Street Newton, KS 67114-8827



- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#2	Curtis	Ness	WW Drilling Rig #2	Oil	Development	Cement Longstring	Jonathan

PRICE REF.	DESCRIPTION	QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way	40	Miles	5.00	200.00
578D-L	Pump Charge - Long String	1	Job	1,300.00	1,300.00
290	D-Air	3	Gallon(s)	42.00	126.00T
281	Mud Flush	500	Gallon(s)	1.50	750.00T
221	Liquid KCL (Clayfix)	4	Gallon(s)	25.00	100.00T
403-5	5 1/2" Cement Basket	1	Each	275.00	275.00T
404-5	5 1/2" Port Collar	1	Each	2,500.00	2,500.00T
406-5	5 1/2" Latch Down Plug & Baffle	1	Each	250.00	250.00T
407-5	5 1/2" Insert Float Shoe With Auto Fill	1	Each	325.00	325.00T
409-5	5 1/2" Turbolizer	10	Each	85.00	850.00T
419-5	5 1/2" Rotating Head Rental	1	Each	200.00	200.00T
330	Swift Multi-Density Standard (MIDCON II)	125	Sacks	16.25	2,031.25T
325	Standard Cement	100	Sacks	13.00	1,300.00T
284	Calseal	5	Sack(s)	35.00	175.00T
283	Salt	550	Lb(s)	0.20	110.00T
285	CFR-1	50	Lb(s)	4.50	225.00T
276	Flocele	50	Lb(s)	2.50	125.00T
581D	Service Charge Cement	225	Sacks	1.75	393.75
583D	Drayage	458.46	Ton Miles	0.85	389.69
	Subtotal				11,625.69
	Sales Tax Ness County			6.50%	607.25

We Appreciate Your Business!	Total	\$12,232.94
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Services, Inc.

CHARGE TO: Abnormo Petroleum Inc.

ADDRESS

CITY, STATE, ZIP CODE

TICKET 27477

PAGE 1 OF 2

1. <u>Hays, KS</u>	WELL/PROJECT NO. <u>#2</u>	LEASE <u>Curtis</u>	COUNTY/PARISH <u>Ness</u>	STATE <u>KS</u>	CITY	DATE <u>02/12/19</u>	OWNER
2. <u>Ness City, KS</u>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <u>Ww Drilling</u>	RIG NAME/NO. <u>#2</u>	SHIPPED VIA <u>CT</u>	DELIVERED TO <u>Location</u>	ORDER NO.	
3.	WELL TYPE <u>Dil</u>	WELL CATEGORY	JOB PURPOSE <u>Development</u>	WELL PERMIT NO.		WELL LOCATION	
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE #110	48	mi			5.00	240.00
578		1			Dump Charge - Long String	1	EA			130.00	130.00
290		1			A-Air	3	gal			42.00	126.00
281		1			Mudflush	500	gal			1.50	750.00
221		1			Liquid KCL	4	gal			25.00	100.00
403		1			Cement Bucket	1	EA	5 1/2"		275.00	275.00
404		1			Art Collar	1	EA			250.00	250.00
406		1			Latch Down Plug & Bolt	1	EA			250.00	250.00
407		1			Invert Float Valve w/ Auto Fill	1	EA			325.00	325.00
409		1			Turbolizer	10	EA			85.00	850.00
419		1			Rotating Head Rental	1	EA			200.00	200.00

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MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

DATE SIGNED: _____ TIME SIGNED: A.M. P.M.

DATE SIGNED: _____ TIME SIGNED: A.M. P.M.

REMIT PAYMENT TO:
 SWIFT SERVICES, INC.
 P.O. BOX 466
 NESS CITY, KS 67560
 785-798-2300

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	WE UNDERSTOOD AND MET YOUR NEEDS?	OUR SERVICE WAS PERFORMED WITHOUT DELAY?	WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?	ARE YOU SATISFIED WITH OUR SERVICE?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL: Page 1 of 2
 TOTAL: 19939.94

DATE: 02/12/19

SWIFT OPERATOR: [Signature]

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES: [Signature]

APPROVAL: _____

The customer hereby acknowledges receipt of the materials and services listed on this ticket.

Thank You!



PO Box 466
Ness City, KS 67560
Off: 785-798-2300

TICKET CONTINUATION

TICKET No. 27477

CUSTOMER
Palomino Petroleum

WELL
Carl's # 2

DATE
02/17/14

PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	WELL				UNIT PRICE	AMOUNT		
		LOC	ACCT	DE			QTY	U/M	QTY	U/M				
330		2				Swift NHV - Density Standard	125	SKS			16	25	2031	25
325		2				Standard Cement	100	SKS			13	20	1380	20
284		2				Calseal	5	SKS			35	20	175	20
283		2				Salt	550	lbs			0	20	118	20
285		2				CFR-1	50	lbs			4	50	225	20
276		2				Flarek	50	lbs			2	50	125	20
581		2				<i>Cement</i>	225	SKS			1	75	393	75
583		2				<i>MILEAGE CHARGE</i>	28923				289	69	389	69
						<i>LOADED MILES</i>	48							
						<i>TON MILES</i>	458,46							
CONTINUATION TOTAL												4749	69	

JOB LOG

SWIFT Services, Inc.

DATE 02/17/19 PAGE NO. 1

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
Alomino Petroleum		#2		Curtis		Long String		27477	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	TUBING	CASING		
	0745								On location, Rig Changing over.
									RTD - 4630'
									Total Pipe - 4632.11'
									5 1/2" x 14 #
									Shoe Jt - 41.11'
									Basket - 67'
									Centralizer - 1, 2, 4, 6, 8, 10, 12, 14, 16, 66
									Art Collar - 67 @ 2020'
	0835								Start Pipe w/ Float Equipment
	1100								Break Circ on Btm
	1200								Hook up to Swift
		2 1/2	8						Plug Rathole w/ 30 SRs SMD
		5	12			400			Pump Mud Flush
		5	20			400			Pump KCob Spacer
		4				300			Start SMD Cmt
		5	44			200			Fin SMD, start EA-2
	1230	5	68			200			Fin Cmt, Shut Down
						Uac			Drop Plug
		3	3						Washout Pump & Lines
	1235	7 1/4							Start Displacement
		7 1/4	80			400			Catch Pressure
	1300	6	112			800/1600			Land Plug 1600 psi
	1240								Release Truck, Dry
	1305								Wash up
									Rack up
	1320								Job Complete

Thanks
Jon, Austin, Shane



RECEIVED
FEB 12 2019

QUALITY OILWELL CEMENTING, INC.
 PO Box 32 - 740 WEST WICHITA AVE, RUSSELL KS 67665
 PHONE:785-324-1041 FAX:785-483-1087
 EMAIL: cementing@ruraltel.net

Date: 2/8/2019
 Invoice # 1220
 P.O.#:
 Due Date: 3/10/2019
 Division: *Russell*

Invoice

Contact:
 Palomino Petroleum Inc
Address/Job Location:

4924 SE 84th
 Newton Ks 67114

Reference:
 CURTIS 2 SEC 10-16-26

Description of Work:
 SURFACE JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 657.71	No				
Common-Class A	120	\$ 1,822.31	Yes				
Calcium Chloride	6	\$ 247.69	Yes				
POZ Mix-Standard	30	\$ 154.81	Yes				
Bulk Truck Matl-Material Service Charge	180	\$ 132.69	No				
Pump Truck Mileage-Job to Nearest Camp	29	\$ 96.20	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	29	\$ 74.82	No				
Premium Gel (Bentonite)	3	\$ 64.13	Yes				

Invoice Terms:

Net 30

	SubTotal:	\$ 3,250.37
	<i>Discount Available <u>ONLY</u> if Invoice is Paid & Received within listed terms of invoice:</i>	\$ (81.26)
	SubTotal for Taxable Items:	\$ 2,231.72
	SubTotal for Non-Taxable Items:	\$ 937.39
	Total:	\$ 3,169.11
	Tax:	\$ 145.06
	Amount Due:	\$ 3,314.17

6.50% Ness County Sales Tax

Thank You For Your Business!

	Applied Payments:	
	Balance Due:	\$ 3,314.17

Past Due Invoices are subject to a service charge (annual rate of 24%)
 This does not include any applicable taxes unless it is listed.
 ©2008-2013 Straker Investments, LLC. All rights reserved.

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 1220

Date	2-8-19	Sec.	10	Twp.	14	Range	26	County	NESS	State	KS	On Location		Finish	4:15pm
Lease								Well No.		Location					
Contractor								2		Utica + DR 3 N 290 W 1/2 S E into					
Type Job								Owner							
Hole Size								To Quality Oilwell Cementing, Inc.							
Csg.								You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.							
Tbg. Size								Charge To							
Tool								Palmino Petroleum							
Cement Left in Csg.								Street							
Meas Line								City							
Displace								State							
EQUIPMENT								The above was done to satisfaction and supervision of owner agent or contractor.							
Pumptrk								Cement Amount Ordered							
Bulktrk								150 8 1/2 3 1/4 2 1/2 1/2							
Bulktrk								used 150 took 180 for extra if sand							
JOB SERVICES & REMARKS								Common							
Remarks:								120							
Rat Hole								Poz. Mix							
Mouse Hole								30							
Centralizers								Gel.							
Baskets								3							
D/V or Port Collar								Calcium							
8 5/8 on bottom. Best Circulation.								6							
Mix 150SK + Displace.								Hulls							
Cement Circulated								Salt							
Thanks								Flowseal							
								Kol-Seal							
								Mud CLR 48							
								CFL-117 or CD110 CAF 38							
								Sand							
								Handling							
								180							
								Mileage							
								FLOAT EQUIPMENT							
								Guide Shoe							
								Centralizer							
								Baskets							
								AFU Inserts							
								Float Shoe							
								Latch Down							
								Pumptrk Charge							
								Surface							
								Mileage							
								29							
								Tax							
								Discount							
								Total Charge							
Signature															



Home
(785) 798-3400

Andrew Stenzel Geologist

Ness City, Kansas



Cell
(785) 798-5977

Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: Curtis #2
API: 15-135-26047-00-00
Location: SE-SW-NW-NW Sec. 10-16S-26W (Ness County)
License Number: 30742
Spud Date: 2/8/19
Surface Coordinates: 1309' FNL & 410' FWL
Region: KANSAS
Drilling Completed: 2/17/19

Bottom Hole
Coordinates:
Ground Elevation (ft): 2627
Logged Interval (ft): 3600 To: TD
Formation: MISSISSIPPI
Type of Drilling Fluid: Mud-Co Chemical
K.B. Elevation (ft): 2632
Total Depth (ft): 4630

Printed by MudLog from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Palomino Petroleum, Inc.
Address: 4924 SE 84th St.
Newton, KS 67114

GEOLOGIST

Name: Andrew Stenzel
Company: Petroleum Geologist
Address: 501 S. Franklin
Ness City, KS 67560

Drilling Report

DAILY DRILLING REPORT:

2/8/19 MIRU, ran surface casing
2/9/19 Drilling @ 645'
2/10/19 Drilling @ 1873'
2/11/19 Drilling @ 2914'
2/12/19 Drilling @ 3307'
2/13/19 Drilling @ 3921'
2/14/19 Drilling @ 4178'
2/15/19 Drilling @ 4482', DST #1
2/16/19 Circulating to condition hole @ 4554'
2/17/19 Ran production casing

Services

RIG: WW Drilling, Rig #2

MUD: MUDCO

LOGS: Gemini Wireline; CNDL, PE, ML, DIL

Casing Record

SURFACE Casing: Ran 5 jts new 8 5/8", 23# casing set at 218'

PRODUCTION Casing: Ran 188 jts used 5 1/2", 14# casing set at 4631'.

Formation Tops

Sample Tops		LogTops	
Anhy.	2063 (+569)	Anhy.	2063 (+569)
Base Anhy.	2096 (+536)	Base Anhy.	2096 (+536)
Heebner	3896 (-1264)	Heebner	3900 (-1268)
Lansing	3939 (-1307)	Lansing	3942 (-1310)
Stark Sh	4180 (-1548)	Stark Sh	4185 (-1553)
BKC	4236 (-1604)	BKC	4240 (-1608)
Marmaton	4282 (-1650)	Marmaton	4284 (-1652)
Pawnee	4365 (-1733)	Pawnee	4372 (-1740)
Ft. Scott	4435 (-1803)	Ft. Scott	4444 (-1812)
Cher. Sh.	4458 (-1826)	Cher. Sh.	4469 (-1837)
Miss.	4523 (-1891)	Miss.	4528 (-1896)
RTD	4630 (-1998)	LTD	4633 (-2001)



Company: Palomino Petroleum, Inc.

SEC: 10 TWN: 16S RNG: 26W
 County: NESS
 State: Kansas
 Drilling Contractor: WW Drilling, LLC - Rig 2
 Elevation: 2628 GL
 Field Name: Unice NE
 Pool: Pool Ext
 Job Number: 309

Lease: Curtis #2

Operation:
 Uploading recovery & pressures

DATE
 February
15
 2019

DST #1 **Formation: Mississippian** **Test Interval: 4482 - 4554'** **Total Depth: 4554'**
 Time On: 18:24 02/15 Time Off: 03:16 02/16
 Time On Bottom: 21:20 02/15 Time Off Bottom: 00:20 02/16

Electronic Volume Estimate:
 147"

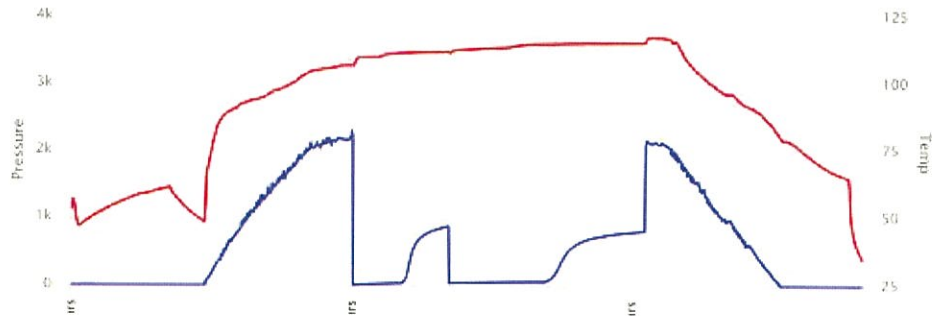
1st Open
 Minutes: 30
 Current Reading: 2.7" at 30 min
 Max Reading: 2.7"

1st Close
 Minutes: 30
 Current Reading: 0" at 30 min
 Max Reading: 0"

2nd Open
 Minutes: 60
 Current Reading: 3.2" at 60 min
 Max Reading: 3.2"

2nd Close
 Minutes: 60
 Current Reading: 0" at 60 min
 Max Reading: 0"

Inside Recorder



Company: Palomino Petroleum, Inc.

SEC: 10 TWN: 16S RNG: 26W
 County: NESS
 State: Kansas
 Drilling Contractor: WW Drilling, LLC - Rig 2
 Elevation: 2628 GL
 Field Name: Unice NE
 Pool: Pool Ext
 Job Number: 309

Lease: Curtis #2

Operation:
 Uploading recovery & pressures

DATE
 February
15
 2019

DST #1 **Formation: Mississippian** **Test Interval: 4482 - 4554'** **Total Depth: 4554'**
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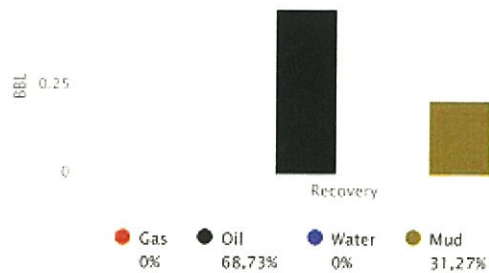
Recovered

Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
50	0.3153595	O	0	100	0	0
15	0.0738	SLMCO	0	98	0	2
60	0.2952	OCM	0	28	0	72

Total Recovered: 125 ft
 Total Barrels Recovered: 0.6843595

Reversed Out
 NO

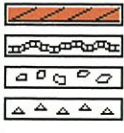
Recovery at a glance



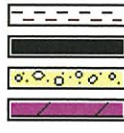
Initial Hydrostatic Pressure	2171	PSI
Initial Flow	12 to 40	PSI
Initial Closed in Pressure	883	PSI
Final Flow Pressure	42 to 64	PSI
Final Closed in Pressure	814	PSI
Final Hydrostatic Pressure	2159	PSI
Temperature	116	°F
Pressure Change Initial Close / Final Close	7.8	%

GIP cubic foot volume: 0

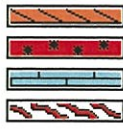
ROCK TYPES



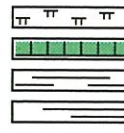
Anhy
Bent
Brec
Cht



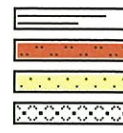
Cyst
Carb shale
Congl
Dol



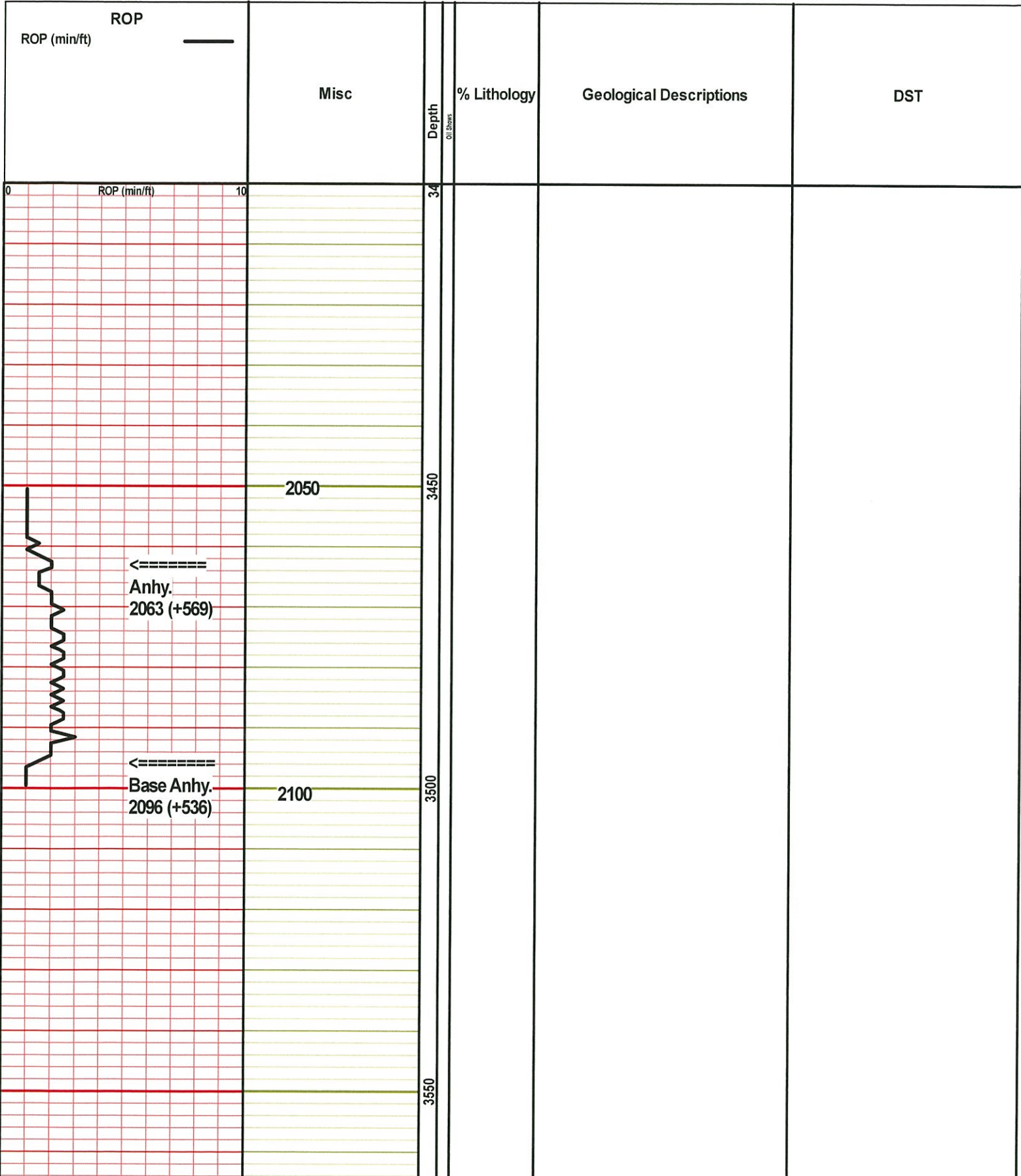
Gyp
Igne
Lmst
Meta

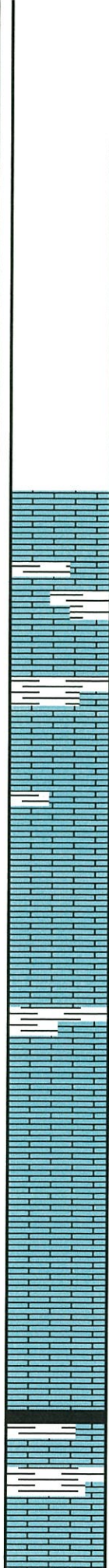
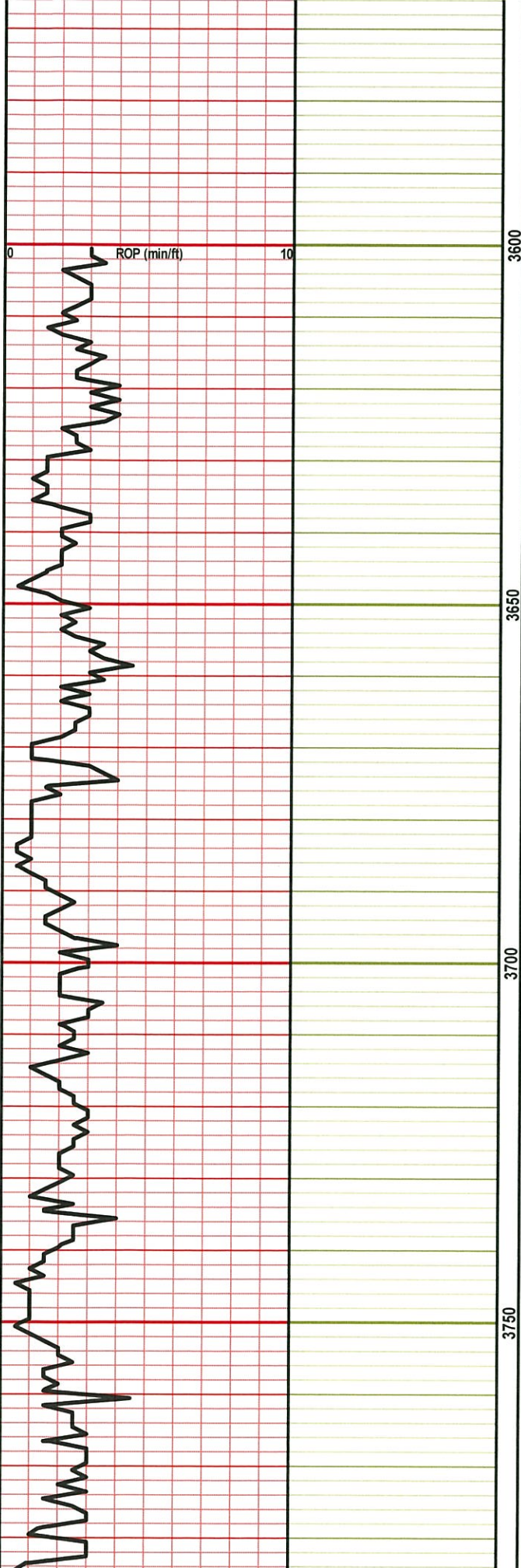


Mrlst
Salt
Shale
Shcol



Shgy
Sltst
Ss
Till





Samples poor, all grey, soft shale

Ls., lt gy-gy, fnxn, sli fri, ool ip, pr intrxn por, ns, no odr, scatt Sh., gy-dk gy

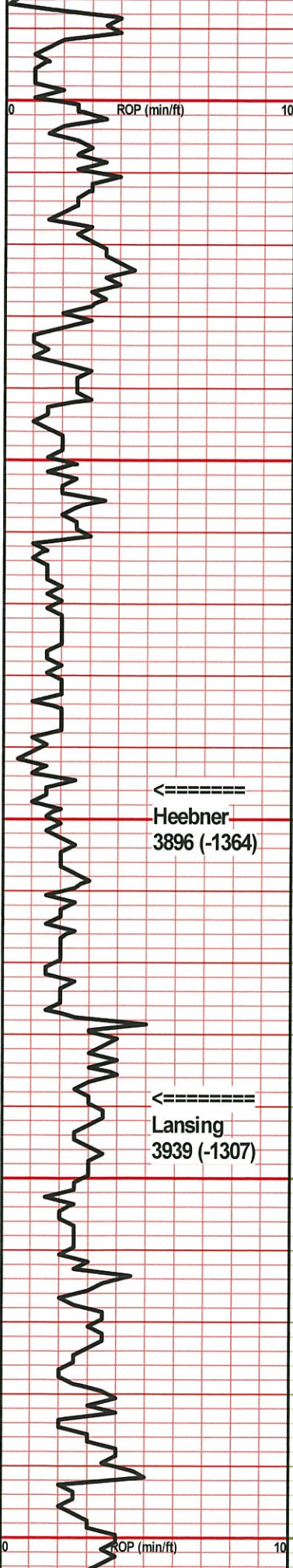
Ls., tn-lt gy, fnxn, mod hd, ool ip, gy ooids, nvp, ns, scatt Sh., aa

Ls., cm-tn-gy, fnxn, sli fri-soft, chky ip, foss/ool ip, fr intrxn & introol por, ns, no odr

Ls., lt gy-gy, fnxn, sli fri, chky ip, ool/foss, few w pr introol & foss por; most wshly infil, ns, no odr, scatt Sh., gy

Ls., tn-lt gy, fn-vfnxn, sli fri-soft, chky, some ool, nvp, ns

Sh., gy-blk, carb ip



3800
3850
3900
3950
4000

Ls., cm, fr-vfnxn, mod hd-sli fri ip, most dns, nvp, chlky ip, ool ip, vy pr introol por, ns, no odr

Ls., cm-lt gy, fnxn, mod hd-sli fri, chlky ip, foss, pr foss por, ns, no odr

Ls., tn-mottld bm, fnxn, soft, chlky, ool ip, nvp, ns, scatt Sh., gy

Sh., blk, carb

Ls., cm, fnxn, mod hd-sli fri ip, foss ip, chrty ip, few pcs wvy pr foss por, ns, no odr, scatt Sh., gy

Sh., gy-bm, Ls., aa

Ls., cm, fnxn, mod hd, brittle, chrty ip, foss ip, nvp, ns, scatt Chrt, cm-wht, shp

Ls., lt gy-gy, fnxn, mod hd-hd, chty ip, dns, nvp, ns, scatt Sh., gy-dk gy

Ls., tn-lt gy, vfnxn, hd, dns, nvp, couple pcs sli fri wvy pr intrxn & frac por, shly infill, ns, no odr, abund Chrt, cm-tn, shp, nvp, ns

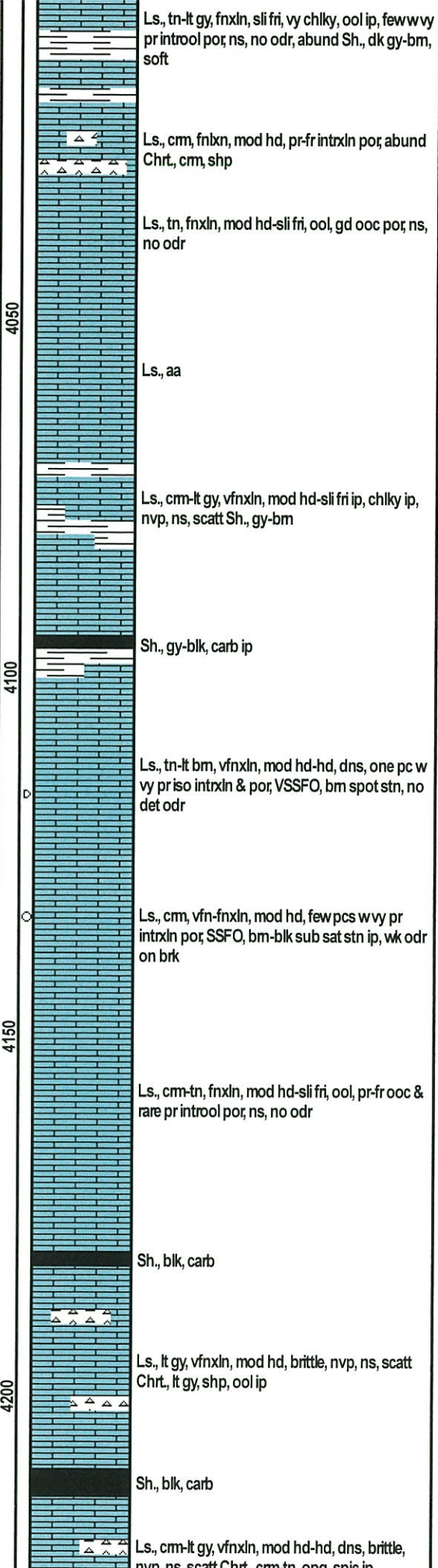
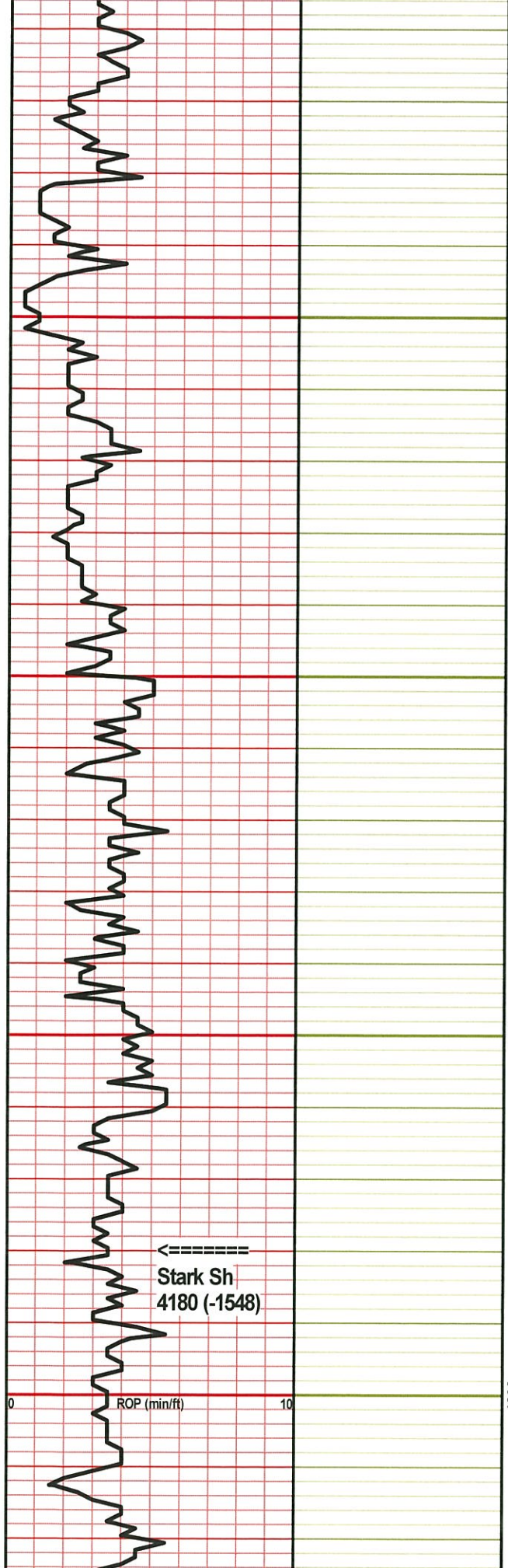
←=====

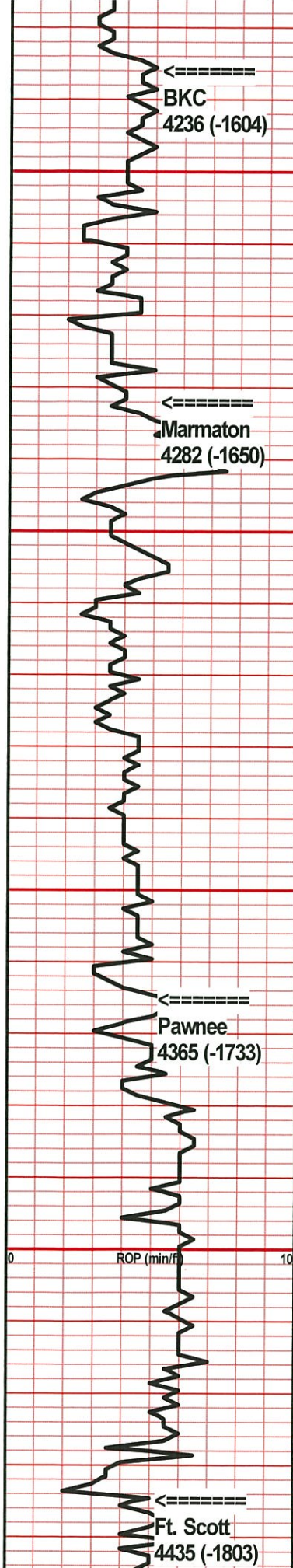
Heebner
3896 (-1364)

←=====

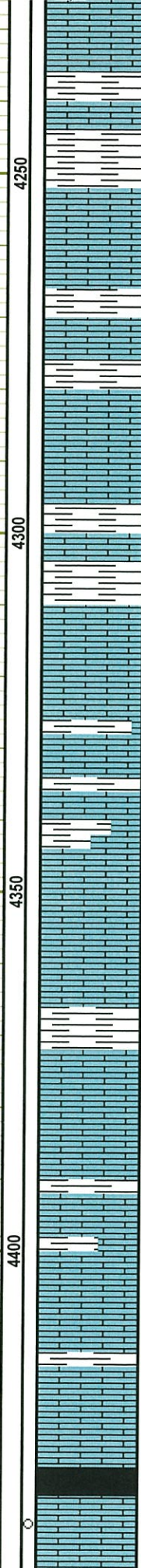
Lansing
3939 (-1307)

Mud @ 3928'
Wt. 8.9
Vis. 59
Filtrate 7.2
Chlor 3100
LCM 1#





Mud @4273'
Wt 9.1
Vis. 50
Filtrate 8.8
Chlor 4300
LCM 2#



Sh., gy-bm

Sh., aa, Ls., lt gy-gy, vfnxln, mod hd, shly, chlky ip, nvp, ns

Ls., cm-lt gy, vfnxln, mod hd, chlky ip, shly ip, nvp, ns, scatt Sh., gy-bm, soft

Ls., lt gy, vfnxln, mod hd, dns, nvp, ns

Sh., gy, soft, Ls., aa

Sh., brick red, vy soft

Ls., cm, vfnxln, mod hd, chlky ip, tr frags w pyr, nvp, ns

Ls., cm-lt gy, fn-vfnxln, mod hd, chlky ip, few pcs wvy pr intrxn por; ns, no odr, scatt Sh., gy-bm

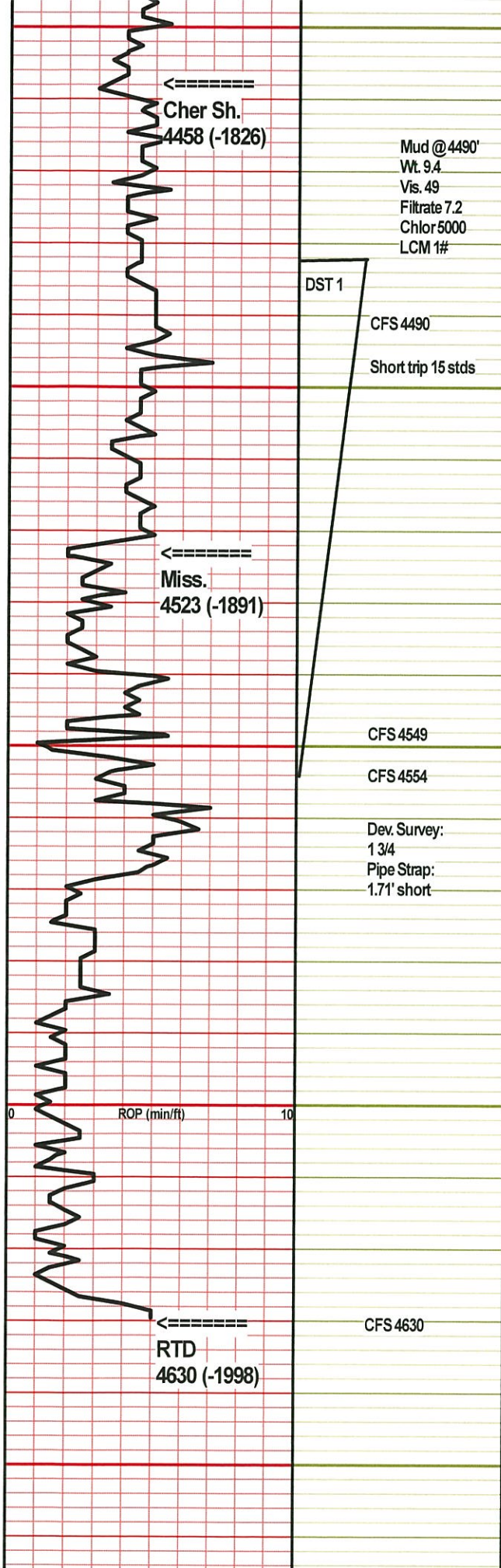
Sh., gy

Ls., cm-lt gy, vfnxln, sli fri-mod hd ip, chlky ip, nvp, ns

Ls., lt gy-gy, vfnxln, mod hd, shly, nvp, ns, scatt Sh., gy

Sh., blk, carb

Ls., tn-lt bm, fn-vfnxln, mod hd, sli chlky, foss, ool ip, vy few pcs wvy pr intrxn por, SSFO, lt bm spot stn, no cup odr, vy wk odr on brk



4450
4500
4550
4600
4650

Ls., cm-tn, fnxn, mod hd, ool ip, chky ip, vy pr intrxn por SSSFO, vy lt spot stn, fr cup odr

Sh., blk, carb

Ls., cm, vfnxn, mod hd-hd, dns, nvp, ns, scatt Chrt, cm-tn, shp

Ls., aa, scatt Sh., gy

Ls., aa abund Sh., gy-bm-lt gm

Sh., aa, abund Chrt, tn-yel-org, weath, scatt Dol., cm-tn, fnxn, mod hd, weath, vy pr intrxn por, SSFO, blk res stn, no cup odr, wk odr on brk

Dol., lt gy-tn, many vfnxn, hd, dns, nvp, ns, some vnxln, sli fri, pr intrxn & vy pr vug por, FSFO, bm sub sat stn, wk odr, scatt Ls., cm, vfnxn, hd, dns, nvp, ns, abund Sh., gy-bm

Dol., tn, fnxn, mod hd-sli fri ip, pr-fr intrxn & occ fr ppt & vug por, GSFO, wk bleed, sat bm stn in most, gd odr, scatt Sh., aa, scatt Ls., aa

Dol., cm-tn, mod hd, many pcs w nvp, ns, some vy chky, some w fr intrxn, spic cast & vug por, GSFO, bm sat stn, sli show gas, gd odr, scatt Ls., cm, vfnxn, nvp, ns

Dol., cm-lt gy, vfnxn, hd, dns, few pcs w pr intrxn por, VSSFO, bm spot stn, wk odr, scatt Ls., cm, vfnxn, mod hd, dns, nvp, ns, scatt Sh., gy-bm

Dol., tn-lt gy, fn-vfnxn, mod hd, some w nvp, ns, few sli suc w pr-vy rare fr intrxn por, SSFO, few w FSFO, bm spot stn, wk cup odr, fr odr on brk, scatt Sh., aa

Dol., tn-lt gy, fn-vfnxn, sli fri, sli suc ip, pr-fm intrxn por, vy few pcs w SSSFO, blk res stn, vy wk odr on brk

Dol., cm-tn, fnxn, sli fri, brittle, pr-fr intrxn por, couple pcs w VSSFO, blk-bm spot stn, wk odr on brk, abund Chrt, clr-wht, broken/weath ip, couple w blk res stn

Dol., & Chrt., aa, wshows aa

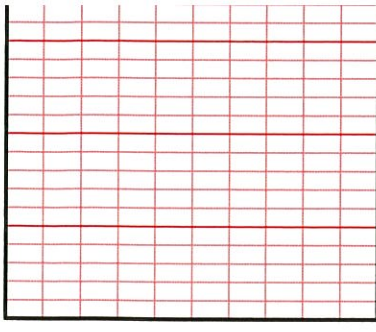
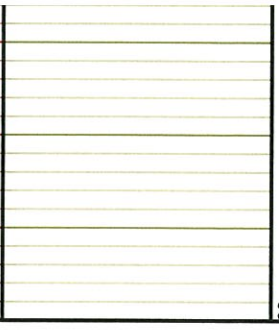
DST #1 4482-4554 (Mississippi)

30-30-60-60
IF: Built to 2.7"
IS: No blow
FF: Built to 3.2"
FS: No blow

Recovery:
50' CO (100%)
15' SMCO (98%O, 2%M)
60' OCM (28%O, 72%M)
125' TF

FP: 12-40; 42-64
SIP: 883-814
HP: 2171-2159

BHT: 116
Gravity: 37
Chlor: ---

		00			
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